SBR No. 70/22-23
DATED 14/12/2022

Original/Duplicate/Triplicate

EE/ 70/22-23

CONTRACT CERTIFICATE

(For Other Works)

Date.....2010 Dt. 14/12/22

No. 2Nd & Final bill

Division: **Electrical (yelahanka)**

Sub-Division: **Electricals**

Bill Received No. Dated Divisional

Sub Divisional

Cash Book Voucher No..... Dated.....

Job Code :-004-21-000021

Schedule Docket No.

Head of Account : P-CODE:P0190 D.R.No. :

Name of Work:-Providing Energy efficient LED Street Lights,control Switches and wires around Ward No 04.

Name of Contractor and Full Address: **Sri.VinayKumar M;M/s Vinay Enterprises**

Reference to Agreement No:BBMP/EE/YNK.D/EPMT-5/W.O/000079/2021-22 Date 22/12/2021

Certified that the measurements were taken by me on 27/10/2022 and recorded of Pages 257284 to 257288 of measurement Book No. 2573 / 2022 and that the work is satisfactorily executed.

For VINAY ENTERPRISES

Proprietor

Contractor

Officer-in-charge of work

Certified that the measurement were taken by me on 27/10/22 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Sub-Division Officer

II Memorandum of Payment

1)	Total value of work done or supplies made as per account within	2nd and final 953501=00
2)	Deduct amount to be held in reserve being .....percent Rs.....	IT 1% 9535=00
3)	" Balance	LWC 1% 9535=00
4)	Deduct Payment:	Amount adjusted
a)	Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D. No..... towards cash advance recovery of	CBF-0.1% 954=00
		CUST 1% 9535=00
		SUST 1% 9535=00
b)	Payments Now made { cost store or other material supplied. recovery of amount creditable to this/other work Amount paid on this bill Cheque / Cash.	Deduction 39094=00
5)	Balance being unpaid value of work done held in reserve.	by balance 914407=00
6)	Deduct cash advance made on the Office cash Book Voucher No..... dated.....less adjustments.	unadjustments/items.
7)	Net amount due to or from Contractor	
8)	Advance to Contractor for materials brought to site (as detailed) within.	
9)	Value of Government materials supplied.	
		Total amount adjusted

For VINAY ENTERPRISES

Contractor's Signature

Received Rs..... (in words).....

.....

by cash and by adjustment of Payment as per memorandum

(in final settlement of all demands)

(For use in the Office)

Witness

1.

2.

Dated Signature of Contractor

For VINAY ENTERPRISES

Stamp

Proprietor

P0190 Works Sanction 953501=00

914407=00

39094=00

Paid by me by Cheque No.....Dated.....

Cash Rs.....

Dated.....

Initials of Officer making payment

Executive Engineer

Sl. No	Description	Unit
	Name Of Work:- Providing Energy efficient LED Street Lights, control Switches and wires around Ward No 04.	
1	Providing Rcc Pole pedstal of Size 0.5x0.5x1.6 Mtrs Including digging of pit, tor steel, anchoring bolts nuts ,templates ,Centring,1;4;8base concrete,1;2;4pedestal concrete and etc coplete as per the data sheet enclosed	Nos
2	Supplying, and fixing of Hot dip Galvanized M.S.Bracket suitable for out door luminaries and mounted on Octagonal pole using necessary bolts, nuts etc., complete.Single Arm Bracket with 1500mm Standard 40/50MM dia	Nos
3	Wiring for lighting/power circuit using one of **FRLS** PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694 confirming to latest amendments.2.5sqmm	Mtrs
4	Supplying heavy gauge PVC conduit pipe .....dia mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws.32mm dia 2mm thick	Mtrs
5	Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975 4 core 16 sqmm	Mtrs
6	Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975 3.5 core 35 sqmm	Mtrs
7	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.In existing trench/duct.6 sqmm to 16 sqmm	Mtrs
8	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.In existing trench/duct.25 sqmm to 75 sqmm	Mtrs
9	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7)In soil (ordinary)	Mtrs
10	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV.40mm	Mtrs
11	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc.35Sqmm	Nos
12	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 12 mm dia	No
13	Supplying and running of GI/Copper strips for grounding connections, using necessary fixing materials as required.25x3mm GI strip	Mtrs
14	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts, necessary phase separators, handle and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics)100Amps 25kA.	Nos
15	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 7tanks treatment with powder coated paint and finally finished with approved colour etc., complete.16SWG	Sqcm
16	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint.40x40x6mm	Mtrs

Previous Measurement		Present Measurement			Total Upto Date		Remarks
Qty	Cost	Qty	Rate	Amount	Qty	Cost	
76	205200	74.00	2700.00	199800.00	150.00	405000.00	
8	15206.4	0.00	1900.80	0.00	8.00	15206.40	
95	2736	0.00	28.80	0.00	95.00	2736.00	
142	8307	105.00	58.50	6142.50	247.00	14449.50	
2728	368280	2458.00	135.00	331830.00	5186.00	700110.00	
168	34020	275.00	202.50	55687.50	443.00	89707.50	
2728	29162.32	2458.00	10.69	26276.02	5186.00	55438.34	
168	2343.6	275.00	13.95	3836.25	443.00	6179.85	
2188	149659.2	2656.00	68.40	181670.40	4844.00	331329.60	
10	3015	10.00	301.50	3015.00	20.00	6030.00	
2	630	1.00	315.00	315.00	3.00	945.00	
2	5399.46	0.00	2699.73	0.00	2.00	5399.46	
3	202.5	3.00	67.50	202.50	6.00	405.00	
2	8154	0.00	4077.00	0.00	2.00	8154.00	
60000	19200	0.00	0.32	0.00	60000.00	19200.00	
16	3672	5.00	229.50	1147.50	21.00	4819.50	

17	Supply and erection of 14 Feet Height Street Light Pole on suitable cement concrete foundation with 2.5 Feet height dia 95 mm cast iron decorative round pedestal as per design weighing not less than 37Kgs, the pedestal shall be fitted with Class 'C' G.I.Pipe 7 Feet height 75mm outer dia and 7 feet height top piece outer dia of 65mm fixed by measure of threading/ welding / coupling complete. (excluding foundation)	Each
18	LED Post Top Lantern GARDEN.Supply of LED Post Top Lantern with system ... wattage, housing & frame shall be of powder coated, die cast aluminum, diffuser with high density polyethylene IP65 EPDM Gasket. Life 50000 Hrs. @ L70 shall be conforming to IS 10322/Part 5/ Section 5 @ 230V. 5 years Warranty against any manufacturing defect working under standard electrical condition LED Post Top Lantern with 24 watts	Nos
19	Supplying heavy gauge PVC conduit pipe .....dia mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws.25mm dia 2mm thick	Mtr
20	1.1KV Class HR (Heat Resistant) PVC Insulated & UnSheathed Aluminium Wires Multistrand Single core Lead wires as per IS-694: 2010PVC Wire - 25 Sqmm Al Wt: 6.7 Kgs, Total Wt: 11.5Kgs for 100Mtrs	Mtr
21	Thiristor based single/ Three phase smart street light control and monitoring system Remotely control and and monitorable smart street light system by using web or mobile application .smart control system has hardware ruggedness over field issues like line cross, line short, lighting and any other irregularities in voltage. It has some features like 1.Remote lighting management.2.Precise lighting turnoff.3.Load ballancing.4.Load power regulation.5.Status tracking. It works on the basis of some of these features 1) Main Control Unit (Mother board) : Handles controlling , data handling and other communication process. 2) Communication unit: GSM/GPRS quad bandwith RS232 interface wireless communication unit 3) Gate Driver Unit: Firing angle controllable board for driving the thyristor 4) Switching Thyristor: SCR 110 AMPS dual thyristor modules for switching 5) Embedded Firmware: Firmware to control , handle , process the data and communicate it wirelessly.6) Metal Enclosure : IP66 weather prof metal enclosure.7) Transformers: Customized step down transformers for various purposes.8) Wiring and other device assembly components.	No
	Total Rs	
	GST Charges (12% on SR Electrical items) Item No 01 to 19	810
	Total Rs	

Certificate: 1. Certefied that the Above Work has been carreid out satisfactorily

8	101376	0.00	12672.00	0.00	8.00	101376.00	
8	114696	0.00	14337.00	0.00	8.00	114696.00	
44	2574	0.00	58.50	0.00	44.00	2574.00	
85	2471.8	0.00	29.08	0.00	85.00	2471.80	
2	92700	1.00	46350.00	46350.00	3.00	139050.00	
	1169005.28			**856272.67**		**2025277.95**	
	128860.02			97228.52		226088.54	
	1297865.30			**953501.19**		**2251366.49**	